

Section 1. Product and Company Identification

Product Name Pyrene
CAS Number 129-00-0

Parchem - fine & specialty chemicals
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EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard Statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P273 Avoid release to the environment.

P391 Collect spillage.

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS: Rapidly absorbed through skin.



Section 3. Composition / Information on Ingredients

Common Name Pyrene
Synonym(s) Benzo[def]phenanthrene
Formula C₁₆H₁₀
CAS Number 129-00-0

COMPONENT	CAS NUMBER	CONCENTRATION
Pyrene	129-00-0	≤ 100%

Section 4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: If victim is conscious and alert, give 2-4 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5. Firefighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

Flash Point: 210°C (410.00°F)

Explosion Limits

Lower: Not available.

Upper: Not available.

NFPA Rating (estimated)

Health: 1

Flammability: 0

Instability: 0

Section 6. Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Do not let this chemical enter the environment.



Section 7. Handling and Storage

Handling: Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8. Exposure Controls / Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Pyrene	0.2 mg/m ³ TWA (as benzene soluble aerosol) (listed under Coal tar pitches).	0.1 mg/m ³ TWA (cyclohexane-extractable fraction) (listed under Coal tar pitches).80 mg/m ³ IDLH (listed under Coal tar pitches).	0.2 mg/m ³ TWA (as benzene soluble fraction) (listed under Coal tar pitches).

OSHA Vacated PELs: Pyrene: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9. Physical and Chemical Properties

Physical State: Powder

Appearance: Yellow green

Odor: None reported.

pH: Not available.

Vapor Pressure (20°C): < 1 mmHg

Vapor Density: Not available.

Evaporation Rate: Not available.



Viscosity: Not available.

Boiling Point: 404°C (760.00mmHg)

Freezing/Melting Point: 156°C

Decomposition Temperature: Not available.

Solubility: 1.271

Specific Gravity/Density: Not available.

Molecular Formula: C₁₆H₁₀

Molecular Weight: 202.25

Section 10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation.

Incompatibilities with Other Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, acrid smoke and fumes.

Hazardous Polymerization: Has not been reported.

Section 11. Toxicological Information

LD50/LC50

Draize test, rabbit, skin: 500 mg/24h Mild;

Inhalation, rat: LC50 = 170 mg/m³;

Inhalation, rat: LC50 = 170 mg/m³;

Oral, mouse: LD50 = 800 mg/kg;

Oral, rat: LD50 = 2700 mg/kg;

Carcinogenicity

- **ACGIH:** A1 - Confirmed Human Carcinogen (as benzene soluble aerosol) (listed as 'Coal tar pitches').
- **California:** Not listed.
- **NTP:** Known carcinogen (listed as Coal tar pitches).
- **IARC:** Group 1 carcinogen (listed as Coal tar pitches).

Epidemiology: No information found

Teratogenicity: TDLo(skin, mouse) = 10 gm/kg/3W-I; Skin and Appendages - tumors

Reproductive Effects: No information found

Mutagenicity: Mutation in microorganisms(Salmonella typhimurium)= 5 µg/plate
Unscheduled DNA synthesis (Human Fibroblast)= 100 mg/L
Sister chromatid exchange(Human Lymphocyte) = 100 µmol/L

Neurotoxicity: No information found



Section 12. Ecological Information

Ecotoxicity: Water flea Daphnia: EC50 = 1.8 mg/L; 48 Hr.; Unspecified No data available.

Environmental: If pyrene is released to soil, it will be expected to adsorb very strongly to the soil and will not be expected to leach to the groundwater. If released to water, pyrene will be expected to adsorb very strongly to sediments and particulate matter. It will not hydrolyze but may undergo slight to moderate bioconcentration.

Physical: No information available.

Other: Reported BCF: rainbow trout, 72; goldfish, 457; fathead minnow, 600 - 970. Based on these values, minimal to moderate bioconcentration of pyrene in aquatic organisms would be expected.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

US DOT / Canada TDG

Shipping Name: Environmentally hazardous substances, solid, n.o.s.

Hazard Class: 9

UN Number: 3077

Packing Group: III

Section 15. Regulatory Information

US Federal

TSCA: CAS# 129-00-0 is listed on the TSCA inventory.

Health & Safety Reporting List: CAS# 129-00-0: Effective 6/1/87, Sunset 6/1/97

Chemical Test Rules: None of the chemicals in this product are under a Chemical Test Rule.

Section 12b: None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule: None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs: CAS# 129-00-0: 5,000 lb final RQ; 2,270 kg final RQ

SARA Section 302 Extremely Hazardous Substances: CAS# 129-00-0: 1,000 lb TPQ (lower threshold); 10,000 lb TPQ (upper threshold)

SARA Codes: CAS# 129-00-0: immediate, delayed.

Section 313: No chemicals are reportable under Section 313.

Clean Air Act

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.



This material does not contain any Class 2 Ozone depletors.

Clean Water Act: None of the chemicals in this product are listed as Hazardous Substances under the CWA. CAS#129-00-0 is listed as a Priority Pollutant under the Clean Water Act. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA: None of the chemicals in this product are considered highly hazardous by OSHA.

STATE: CAS# 129-00-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, (listed as Coal tar pitches), Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Xn

Risk Phrases

R 45 May cause cancer.

Safety Phrases

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection): CAS# 129-00-0: No information available.

Canada - DSL/NDSL: CAS# 129-00-0 is listed on Canada's DSL List.

Canada - WHMIS: This product has a WHMIS classification of D1A, D2A.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List: CAS# 129-00-0 is listed on the Canadian Ingredient Disclosure List.

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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